**Index of Claims** 

| Application/Control | Νo. |
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10/085,780 Examiner

Applicant(s)/Patent under Reexamination

FRIEDEN ET AL.

Art Unit

Restricted

Sathyanarayan Pannala

2167

Rejected Allowed

(Through numeral) Cancelled

Non-Elected N

Interference

**Appeal** Α 0 Objected

| Clá  | aim         |          |          |           | _[       | Date      | е        |                     |          |          |      | Cla               | im          |              |                     |         | Da                 | е            |                 |          |      |               | CI       | aim        |  |          |     | -   | Date | e        |        |                   | $\neg$   |
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|  | <del></del> | سا       |          |           |          |           | 1        |                     | :        |          |      |                   | <del></del> | ١,,          |                     |         |                    |              |                 |          |      |               |          | -          |  |          |     |     |      |          |        | П                 |          |
| Final  | Original    | 5/20/02  |          | ı         |          |           |          |                     |          |          |      | Final             | Original    | 5/20/05      | Н                   | - 1     | İ                  |              |                 |          |      |               | Final    | Original   |  |          |     |     |      |          |        | Н                 |          |
| iĒ   | Ĕ           | 2/2      |          |           |          |           |          |                     |          |          |      | iĒ                | Oric.       | 2/2          |                     |         |                    |              |                 |          |      |               | iĒ       | <u>`</u> E |  |          |     |     |      | }        |        | il                |          |
|  | <u> </u>    |          |          |           |          |           |          |                     |          |          |      |                   | _           |              |                     |         |                    |              |                 |          |      |               |          |            |  |          |     |     |      |          |        |                   |          |
|  | 1           | 1        |          |           |          |           |          |                     |          |          |      |                   | 51          | 1            |                     |         |                    |              |                 |          |      |               |          | 101        |  |          |     |     |      |          |        |                   |          |
|  | 2           | 1        | $\Box$   |           |          |           |          |                     |          |          |      |                   | 52          | √            |                     |         |                    |              |                 |          |      |               |          | 102        |  |          |     |     |      |          |        | $\Box$            | $\Box$   |
|  | 3           | √        |          |           |          |           |          | Ш                   |          |          |      |                   | 53          | √            |                     |         |                    |              |                 |          |      |               |          | 103        |  |          |     |     |      |          |        |                   |          |
|  | 4           | √        |          |           |          |           | L        |                     |          |          |      |                   | 54          | √            | 1 [                 |         |                    |              |                 |          |      |               |          | 104        |  |          |     |     |      |          |        | П                 |          |
|  | 5           | 1        |          |           |          |           |          |                     |          |          |      |                   | 55          | 1            |                     |         |                    |              |                 |          |      |               |          | 105        |  |          |     |     |      |          |        | П                 |          |
|  | 6           | 1        |          | $\Box$    |          |           | _        |                     |          |          |      |                   | 56          | 1            |                     |         |                    | L            |                 |          |      |               |          | 106        |  |          |     |     |      |          |        | $\Box$            |          |
|  | 7           | 1        | Ш        |           |          |           | L        |                     |          |          |      |                   | 57          |              |                     |         |                    | _            | _               |          |      |               |          | 107        |  |          |     |     |      |          |        | $\square$         |          |
|  | 8           | √        | Ш        |           |          |           | L        |                     | $\perp$  |          |      |                   | 58          |              | Ш                   | $\perp$ |                    |              |                 |          |      |               | <u> </u> | 108        |  | Ш        |     |     |      |          |        |                   |          |
|  | 9           |          | Ш        |           |          |           |          |                     |          |          |      |                   | 59          |              | Ш                   |         |                    | <u> </u>     | <u>L.</u>       | Ш        |      |               | Ĺ        | 109        |  |          |     |     |      |          |        | $\Box$            |          |
| ļ  | 10          |          |          |           |          |           |          | Ш                   | Ц        |          |      |                   | 60          |              |                     |         |                    | _            |                 | 凵        |      |               |          | 110        |  | Ш        |     |     |      |          |        |                   |          |
|  | 11          | L.       | Ш        |           |          | Ш         |          | Ш                   | $\sqcup$ | _        |      |                   | 61          | _            | Ш                   | $\perp$ | $\perp$            | _            |                 | Ш        |      |               |          | 111        |  | Ш        | ]   |     |      |          |        |                   |          |
|  | 12          | <u> </u> | Ш        |           |          | Ш         | <u> </u> | Ш                   | $\sqcup$ | _        |      |                   | 62          | 1            | Ш                   |         | $\perp$            | $oxed{oxed}$ | _               | Ш        |      |               |          | 112        |  | Ш        | ]   |     |      |          |        |                   |          |
|  | 13          | Ļ        | $\sqcup$ |           |          |           | L_       | Ш                   | $\sqcup$ |          |      |                   | 63          | 1            | Ш                   | $\perp$ | $\perp$            | <u> </u>     | _               | Ш        |      |               |          | 113        | _  | Ш        | ┙   |     |      |          |        |                   |          |
|  | 14          | √        | Ш        |           |          | Ш         | <u> </u> | Ш                   |          |          |      |                   | 64          | √            | Ш                   | $\perp$ | $\perp$            | <u> </u>     | <u> </u>        | Ш        |      |               | <u> </u> | 114        |  | Ш        |     |     |      |          |        | $\Box$            | $\Box$   |
| <u></u>  | 15          | 1        | $\sqcup$ |           | ļ        | Щ         | <u> </u> | Ш                   |          | _        |      | $\Box$            | 65          | <u> </u>     | $\sqcup$            |         | $\perp$            | L            |                 | Щ        |      |               |          | 115        | $ldsymbol{ldsymbol{ldsymbol{ldsymbol{eta}}}$ |          | _   |     |      |          |        | $oldsymbol{\bot}$ | _]       |
| $\perp$  | 16          | 1        |          |           |          |           | <u> </u> | Ш                   |          | _        |      |                   | 66          | <u> </u>     | Ш                   | $\perp$ | $oldsymbol{\perp}$ | _            | $oxed{oxed}$    | Ш        |      |               |          | 116        | _  |          |     |     |      |          |        |                   |          |
| $\vdash$   | 17          | V        | $\vdash$ |           |          | Ш         | <u> </u> | Ш                   | $\Box$   | _        |      | $oxed{oxed}$      | 67          | <u> </u>     | Ш                   | $\perp$ | _                  | <u> </u>     | _               | Щ        |      |               |          | 117        | L  |          |     |     |      |          |        |                   |          |
|  | 18          | 1        |          |           | _        |           |          | Ш                   | _        |          |      |                   | 68          | 乚            | Ш                   |         |                    | _            |                 | Ш        |      |               |          | 118        |  | Ш        |     |     |      |          |        |                   |          |
|  | 19          | 1        |          |           | _        |           |          |                     |          | _        |      |                   | 69          | L            | $\sqcup$            |         |                    | L            | <u> </u>        | Ш        |      |               |          | 119        | L  |          |     |     |      |          |        |                   |          |
|  | 20          | 1        |          | _         | _        |           |          | Ш                   | _        |          |      |                   | 70          |              |                     |         |                    | L            | <u> </u>        | Ш        |      |               |          | 120        |  |          |     |     |      |          |        |                   |          |
|  | 21          | 4        | Ĺ        | _         | _        |           |          | Ш                   | $\Box$   |          |      |                   | 71          | _            |                     |         | _                  | <u> </u>     |                 |          |      |               |          | 121        |  |          |     |     |      |          |        |                   |          |
|  | 22          | √        |          | _         | _        | Ш         | ļ        | Ш                   | $\perp$  | _        |      |                   | 72          | _            | Ш                   | $\perp$ | $\downarrow$       | <u> </u>     |                 |          |      |               |          | 122        |  |          |     |     |      | Ш        | $\Box$ | $\Box$            |          |
|  | 23          | 1        |          | _         | _        |           |          | Ш                   |          | _        |      |                   | 73          |              | Ш                   |         | $\downarrow$       | _            | _               |          |      |               | L        | 123        | L  |          |     |     |      |          |        |                   | _        |
|  | 24          | 1        | Ц        | _         | _        |           | _        |                     |          | _        |      |                   | 74          |              |                     |         | 1                  | <u> </u>     | _               |          |      |               |          | 124        | L  |          |     |     |      |          |        | Ш                 | _        |
|  | 25          |          |          | _         | _        |           | _        | Ш                   |          | _        |      |                   | 75          | _            | Ш                   |         | _                  | L            | L               |          |      |               |          | 125        | L  |          | _   |     |      |          |        | Ш                 | _        |
|  | 26          | _        | $\Box$   | _         | _        |           | _        |                     |          | 4        |      |                   | 76          |              | Ш                   |         | 1                  | igspace      | <u> </u>        |          |      |               |          | 126        |  |          | _   |     |      |          |        |                   | 凵        |
|  | 27          | _        |          | _         | _        |           |          |                     | _        | _        |      |                   | 77          | <u> </u>     | $\sqcup$            |         | ↓_                 | _            | L               | Ш        | Щ    |               |          | 127        | _  | Ц        | _   |     |      |          |        |                   |          |
|  | 28          | $\vdash$ |          |           | _        |           |          | $\sqcup$            | _        | _        |      |                   | 78          |              | $\sqcup$            |         | $\bot$             | _            |                 |          |      |               |          | 128        | _  | $\sqcup$ | _   |     |      |          |        | _                 | _        |
|  | 29          | <u> </u> | _        | _         | _        |           | L        | $\Box$              | _        | _        |      |                   | 79          | _            | Ш                   | _       | ╄                  | _            |                 |          | Ш    |               |          | 129        | $oxed{oxed}$                                 | $\Box$   | _   | _   |      |          |        | $\dashv$          | _        |
|  | 30          | <b>V</b> |          | <b></b> ∤ | _        |           | _        | $\sqcup$            |          | _        |      |                   | 80          | L            | Ш                   |         | 1                  |              | _               |          |      |               |          | 130        |  |          | _   |     |      |          |        | $ \bot $          | $\Box$   |
|  | 31          | 7        | _        | _         | _        |           |          | Ш                   | _        | _        |      |                   | 81          | _            | $\perp$             |         | _                  |              |                 | Ш        |      |               |          | 131        |  | $\Box$   | _   |     |      |          |        |                   |          |
|  | 32          |          | _        |           |          |           |          | $\sqcup$            | -        | _        |      |                   | 82          | _            |                     |         | 4_                 | L            | _               |          |      |               |          | 132        |  | $\dashv$ |     | _   | Ш    |          | $\Box$ | _                 | _        |
| $\vdash$   | 33          | 1        |          | 4         |          |           |          | $\square$           | $\dashv$ | _        |      |                   | 83          |              | $\sqcup$            | $\bot$  | $\perp$            | <u> </u>     | $\vdash$        | Щ        | Щ    |               |          | 133        | Щ  | $\sqcup$ | _   |     |      |          |        | $\dashv$          | _        |
| $\vdash$   | 34          | - 4      |          | _         |          | _         |          | $\vdash \vdash$     | $\dashv$ | _        |      | I                 | 84          | <u> </u>     | $\sqcup$            | _       | 4-                 | <u> </u>     | Ļ               | Ц        | Ц.   |               |          | 134        | Щ  |          | _   | _   |      |          | _      | _                 | _        |
| <del>  </del>                                    | 35          | - <      | $\dashv$ | -         | -        |           | $\vdash$ | $\left  - \right $  |          | 4        |      |                   | 85          | $\vdash$     | $\sqcup$            | +       | +-                 | $\vdash$     | <u> </u>        | $\sqcup$ | Ц.   |               |          | 135        | Ш  |          | _   | _   | _    | $\sqcup$ | _      | $\dashv$          | _        |
|  | 36          | 1        | $\dashv$ | _         | -        |           | $\vdash$ |                     |          | 4        |      | L                 | 86          | $\vdash$     | $\sqcup$            | -       | ╁                  | <u> </u>     |                 | ш        | _    |               |          | 136        | Ш  | $\sqcup$ | _   | _   |      |          |        | $\dashv$          | _        |
| $\vdash$   | 37          | - 4      | $\dashv$ | _         | $\dashv$ | <b></b> ∤ |          |                     |          | ᅴ        |      |                   | 87          |              | $\sqcup$            | 4       | ╀-                 | <del>ا</del> | Щ               | $\sqcup$ |      |               |          | 137        | Ш  | $\sqcup$ | _   | _   | _    |          | _      | _                 | _        |
| $\vdash$   | 38          | 1        | $\dashv$ | -         | -        |           | $\dashv$ | $\vdash \downarrow$ |          | 4        |      |                   | 88          | $\vdash$     | ${oxed}$            | _       | 4-                 | <u> </u>     | Н               | $\sqcup$ | _    |               |          | 138        |  | $\sqcup$ | _   | _   | _    | $\Box$   |        | _                 | $\dashv$ |
| $\vdash$   | 39          | <b>√</b> | $\dashv$ | -         | -        |           | -        | $\vdash$            | $\dashv$ | 4        |      |                   | 89          | $\vdash$     | $\vdash \vdash$     |         | +                  | <u> </u>     | Н               | $\Box$   | _    |               |          | 139        | Щ  | $\dashv$ |     | _   | _    | _        | _      | _                 | _        |
| $\vdash$   | 40          | 1        |          | -         | -        | -         | $\vdash$ | $\vdash$            | $\dashv$ | 4        |      |                   | 90          | $\vdash$     | $\sqcup$            | -       | +                  |              | Н               | $\sqcup$ | _    |               |          | 140        | Ш  | $\sqcup$ | _   |     |      |          |        | _                 | 4        |
| $\vdash \vdash \vdash$                           | 41          |          |          | -         | -        | -         |          |                     | $\dashv$ | 4        |      |                   | 91          | -            | $\vdash \vdash$     | +       | +                  | <u> </u>     | Н               | $\dashv$ | 4    |               |          | 141        | L.   | $\sqcup$ | _   | _   |      | _        |        | _                 | 4        |
|  |             |          | -        |           |          | -         |          | $\vdash$            | $\dashv$ | 4        |      | <u>.</u>          | 92          | <u> </u>     | $\vdash \downarrow$ | +       | ┼-                 | <del> </del> | $\vdash$        | $\dashv$ | 4    |               |          | 142        |  | Щ        | _   |     |      |          | _      | _                 | _        |
| $\vdash$   | 43<br>44    |          | -        | $\dashv$  | 4        | -         | $\vdash$ | $\vdash$            | -        | _        |      |                   | 93          | Ь,           | $\vdash \vdash$     | _ _     | +-                 |              | $\vdash$        | $\dashv$ | _    |               |          | 143        | Ш  | _        |     | _   | _    | _        | _      | _                 | $\dashv$ |
| <del>   </del>                                   | 44          |          | -        | $\dashv$  |          |           | $\vdash$ | $\vdash \vdash$     | $\dashv$ | $\dashv$ |      | $\longrightarrow$ | 94<br>95    | H            | $\vdash \downarrow$ | -       | +                  | <u> </u>     | $\vdash \vdash$ | $\dashv$ | _    |               |          | 144        | Щ  |          | _   | _   | _    |          |        | $\dashv$          | 4        |
| $\vdash \vdash \vdash$                           |             | 1        |          | $\dashv$  | $\dashv$ | ᅱ         |          | $\vdash$            | +        | ᅱ        |      |                   |             | -            | $\dashv$            | -       | +                  | H            |                 | $\dashv$ |      |               |          | 145        |  | -        |     |     | _    | _        | -4     | $\dashv$          | -        |
| $\vdash$   | 47          | 7        | -        | +         | $\dashv$ | $\dashv$  | -        | $\vdash$            | +        | $\dashv$ |      |                   | 96<br>97    | <b>-</b> -   | $\vdash \vdash$     | - -     | +                  |              | Н               |          |      |               |          | 146        | Щ  | -        | 4   | ļ   | _    |          | _ ļ    | 4                 | _        |
| $\vdash \vdash \vdash$                           | 48          | 7        | $\dashv$ | $\dashv$  | $\dashv$ | - i       | $\dashv$ | H                   |          | $\dashv$ |      | —-i               |             | _            | $\dashv$            | +       | +-                 |              | Н               | $\dashv$ |      |               |          | 147        | $\vdash \vdash$                              | 4        |     | _   |      |          |        | $\dashv$          | 4        |
| $\vdash$   | 49          | 7        |          | $\dashv$  | $\dashv$ | -         | -        | $\vdash$            | $\dashv$ | -        |      |                   | 98          | <u> </u>     | $\dashv$            | -       | +                  |              | $\vdash \vdash$ |          |      |               |          | 148        | $\sqcup$                                     | $\dashv$ | _   |     | _    |          | _      | $\dashv$          | $\dashv$ |
| <del>                                     </del> |             | 1        | $\dashv$ | $\dashv$  | $\dashv$ | -         |          | $\vdash \vdash$     | $\dashv$ | $\dashv$ |      |                   | 99          | <del> </del> | $\vdash$            | +       | +-                 | Н            | Н               |          |      |               |          | 149        | $\sqcup$                                     | $\dashv$ | -   |     |      | -        | _      | $\dashv$          | $\dashv$ |
| -  | 30          |          |          |           | _1       |           |          | LI                  |          |          | :::: | - 1               | 100         |              | 1                   | 1       | 1                  | ı            | ıl              | 1        | - 1: | :::: <b>!</b> |          | 150        |  | - 1      | - 1 | - 1 |      | - 1      | - 1    | - 1               | - 1      |